

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 10/03/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/981,960	10/18/2001	Hans Eberle	SUN-P6346-SPL	7283
28422 7	590 10/03/2003		EXAMINER	
HOYT A. FLEMING III			TSAI, CAROL S W	
P.O. BOX 140678 BOISE, ID 83714			ART UNIT	PAPER NUMBER
•			2857	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) OPRITIES Carol S Tsai 2857 Period for Reply A SHORTEND STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAIL/IND DATE Of this communication app ars on the cerv **river* with the correspondence address**- Period for Reply A SHORTEND STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAIL/IND DATE OF THIS COMMUNICATION. Educations of time may be available under the positions of 3 CFR 1.15(6). In ne event, however, may a reply be timely filed and set X(6) (WORTH'S from he mailing also of this communication and the X(6) (WORTH'S from he mailing also of this communication and the X(6) (WORTH'S from he mailing also of this communication and the X(6) (WORTH'S from he mailing also of this communication. **BIND period for rely/* is specified above, the mainterm statety proted all spays and will expire \$X(6) MONTH'S from he mailing also of this communication. **BIND period for rely/* is specified above, the mainterm statety proted all spays and will expire \$X(6) MONTH'S from he mailing also of this communication. **BIND period for rely/* is specified above, the mainterm statety proted all spays and will expire \$X(6) MONTH'S from he mailing also of this communication. **BIND period for rely/* is specified above, the mainterm statety proted all spays and will expire \$X(6) MONTH'S from he mailing also of this communication. **BIND period for rely/* is passed and period for all spays and will expire \$X(6) MONTH'S from he mailing also of the communication. **BIND period for rely/* is passed and period for all spays and will expire \$X(6) MONTH'S from he mailing also of the seriod period for \$X(6) MONTH'S from he mailing also of the mail spays and the seriod period for all spays and the seriod period for \$X(6) MONTH'S from he mailing also of the mailing al			AC				
Examin r Carol S Tsai 287 -The MALLING DATE of this communication app are on the core repet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Eleteration of time may be available under the provisions of 3°C CPR 1.35(e), in no event, however, may a reply be timely filed. If the period for reply specified dever, the maximum statistics period will apply new vinicages SX (5) MONTHS from the mailing date of time. If the period for reply specified dever, the maximum statistics period will apply new vinicages SX (5) MONTHS from the mailing date of time communication, even if timely filed, may reduce a replication of the communication of the communication, even if timely filed, may reduce a replication is application in the mailing date of this communication, even if timely filed, may reduce a replication is communication. 1) Responsive to communication(s) filed on 25 August 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-34.40.41 and 44-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are abjected to by the Examiner. 10 The graving(s) filed on is/are: a) accepted or b objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is/are: a) accepted or b objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The cath or declaration is objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The cath or declaration from the international Bureau (PC		Application No.	Applicant(s)				
Card S Tsai The MALLING DATE of this communication app ars on the cov r sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. If the period for reply specified above is less than bifly (30) stay, is reply within the admitted press of the priod with life for the malling date of this communication. If the period for reply specified down the malling date of this communication. If the period for reply specified down the malling date of this communication. If the period for reply specified down the malling date of this communication. If the period for reply specified down the malling date of this communication. If the period for reply specified down the malling date of this communication. If the period for reply specified and the specified and the specified and specified the specified and speci		09/981,960	EBERLE ET AL.				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extractions of time may be available under the proteins of 37 cFR 1.13(e). In no event, however, may a reply be timely filed after SX (p) NONTH from the realing date of this communication. - Extractions of time may be available under the proteins of 37 cFR 1.13(e). In no event, however, may a reply be timely filed after SX (p) NONTH from the realing date of this communication. - Extractions of time may be available under the proteins of 37 cFR 1.13(e). In no event, however, may a reply be timely filed after SX (p) NONTH from the mailing date of this communication. - Extractions of time may be supported before the mailing date of this communication. - Fallow is reply within the set of extended period of reply will. by adaptive, post will be adaptive, the communication. - Fallow is reply within the set of the communication. - Fallow is reply within the set of the communication. - Fallow is reply within the set of the communication. - Fallow is reply within the set of the communication. - Fallow is the set of the set of the communication. - Fallow is reply within the set of the communication. - Fallow is reply within the set of the communication. - Fallow is reply within the set of the communication. - Fallow is reply within the set of the communication. - Fallow is reply within the set of the communication. - Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparts 2003. - Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparts 2003. - Since this application is of the accordance with the practice under Exparts 2003. - Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed. - Claim(s)	Office Action Summary	Examin r	Art Unit				
A SHORTENED STAUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Entensions of time may be available under the provisions of 37 CFR 1.13(p), in no event, however, may a reply be timely filled Entensions of time may be available under the provisions of 37 CFR 1.13(p), in no event, however, may a reply be timely filled Entensions of time may be available under the provisions of 37 CFR 1.13(p), in no event, however, may a reply be timely filled Entensions of time may be available under the provisions of 37 CFR 1.13(p), and will be admitted to the provision of the							
THE MAILING DATE OF THIS COMMUNICATION. Editacions of time may be varied under the provides of 37 CPR 1.15(6). In no event, however, may a reply be timely filed after SR (6) MONTH's from the realing date of this communication. If the pended for reply specified above is set the set (100 days, exp.) which the statutory incinnum of theirly (30 days will be considered timely). If the pended for reply specified above is set the set (100 days, exp.) which the statutory incinnum of theirly (30 days will be considered timely). Failure to reply within the set or extended pended for reply will, by statutory incinnum of the pended to reply will, by statutory incinnum of the maining date of this communication. Failure to reply within the set or extended pended for reply will, by statutory and pended to become ARANDONED (30 U.S. C.§ 1130). Any reply received by the Office of the thin there months after the maining date of this communication, even if timely filed, may reduce any search glacet time adjustment. See 37 CFR 1.79(b). Statuts 1)							
2a) This action is FINAL. 2b This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayie, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-34.40.41 and 44-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13)	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practica under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-34.40.41 and 44-51 is/are pending in the application. 4) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)	1) Responsive to communication(s) filed on 25 A	Nugust 2003 .					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-34.40.41 and 44-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-34.40.41 and 44-51 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s)	2a)⊠ This action is FINAL . 2b)□ Thi	is action is non-final.					
A) Claim(s) 1-34,40,41 and 44-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are allowed. 7) □ Claim(s) is/are objected to. 7) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) □ The translation of the foreign language provisional application has been received. 15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) Notice of Paferences Cited (PTO-892) Notice of Informal Patent Application (PTO-152)							
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are allowed. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) □ The translation of the foreign language provisional application has been received. 15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152)							
5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are objected to. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) □ The translation of the foreign language provisional application has been received. 15) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10 □ Interview Summary (PTO-413) Paper No(s) 50 □ Notice of Draftsperson's Patent Drawing Review (PTO-948) 50 □ Notice of Informal Patent Application (PTO-152)	4)⊠ Claim(s) 1-34,40,41 and 44-51 is/are pending in the application.						
6) Claim(s) 1-34.40.41 and 44-51 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received. 2 Certified copies of the priority documents have been received in Application No 3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 10 Notice of References Cited (PTO-892) 11 Interview Summary (PTO-413) Paper No(s) 50 Notice of Informal Patent Application (PTO-152)	4a) Of the above claim(s) is/are withdrawn from consideration.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152)	5) Claim(s) is/are allowed.						
8 Claim(s) are subject to restriction and/or election requirement. Application Papers 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on is/are: a) accepted or b objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11 The proposed drawing correction filed on is: a) approved b disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12 The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1 Notice of References Cited (PTO-892) 2 Notice of Draftsperson's Patent Drawing Review (PTO-948)	6)⊠ Claim(s) <u>1-34,40,41 and 44-51</u> is/are rejected.						
Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 3) Notice of Informal Patent Application (PTO-152)	7) Claim(s) is/are objected to.						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. Attachment(s) 1) Notice of References Cited (PTO-892) A Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152)	8) Claim(s) are subject to restriction and/or election requirement.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) 5) ☐ Notice of Informal Patent Application (PTO-152)	Application Papers						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152)	,_ ,_ ,						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Informal Patent Application (PTO-152)							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 1) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)							
12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152)							
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152)							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) Notice of Draftsperson's Patent Drawing Review (PTO-948)							
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152)							
1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)							
2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 1 Notice of Informal Patent Application (PTO-152)							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 1) Notice of Informal Patent Application (PTO-152)							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152)	application from the International Bureau (PCT Rule 17.2(a)).						
15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) ☐ Interview Summary (PTO-413) Paper No(s) 5) ☐ Notice of Informal Patent Application (PTO-152)							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)							

Art Unit: 2857

Ù.,

DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 9, 12, 19, 20, 23, 30, 40, and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over U. S. Publication 2003/0036351 to Forbes in view of U. S. Publication 2002/0053001 to Miura et al.

With respect to claims 1-3, 19, 30, and 40, Forbes discloses a memory module for storing data, including: a) a first circuit board having a plurality of electrical terminals for interfacing with a second circuit board (see Figs. 1 and 2 and paragraphs 0024 and 0025); b) a volatile memory device (memory device110 shown on Fig. 1) mounted on the first circuit board and c) a non-volatile memory device (memory device110 shown on Fig. 1) mounted on the first circuit board, the non-volatile memory device storing memory module information (see paragraph 0022 and page 4, claims 12 and 13); and d) a radio transmitter (transmitter/receiver 120 shown on Fig. 1) mounted on the first circuit board, the radio transmitter operable to receive said information from non-volatile memory device and transmit said information to a radio receiver (transmitter/receiver 422 shown on Fig. 1) mounted on the second circuit board thereby enabling

Art Unit: 2857

a device on the second circuit board to utilize said information to write data to the volatile memory device (see paragraphs 0020-0026).

Forbes does not disclose the information related to the number of rows on the memory module and the number of columns on the memory module.

Miura et al. teach the information related to the number of rows on the memory module and the number of columns on the memory module (see Figs. 1 and 21 and paragraphs 0143 and 0144).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Forbes's system to include the information related to the number of rows on the memory module and the number of columns on the memory module, as taught by Miura et al., because columns and rows identified as addresses being a conventional formatted structure defined in the memory module for storing data.

As to claims 9 and 20, Forbes also discloses the radio transmitter being a radio transceiver (transmitter/receiver 120 shown on Fig. 1).

As to claims 12 and 23, Forbes also discloses the radio transceiver being operable to receive radio signals from a second radio transmitter (see Fig. 1).

Forbes does not disclose receive radio signals from a third radio transmitter.

The Examiner takes Official Notice that it is known to duplicate or multiply components in order to duplicate or multiply their functions.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Forbes's system to include receive radio signals from a third radio

Art Unit: 2857

transmitter, in order that information of memory module stored in the non-volatile can be transmitted to more locations.

As to claim 41, Forbes also discloses using the received memory module information to configure a memory controller (see paragraph 0020).

4. Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forbes in view of Miura et al. as applied to claims 1 above, and further in view of U.S. Publication 2002/0118175 to Liebenow et al.

As noted above, with respect to claims 4-7, Forbes in combination with Miura et al. teach all the features of the claimed invention, but do not disclose the volatile memory device being a synchronous dynamic random access memory (SDRAM) device and the non-volatile memory device being an electrically programmable read only memory (EPROM)/an electrically erasable programmable read only memory (EEPROM)/a serial electrically erasable programmable read only memory (SEEPROM).

Liebenow et al. teach volatile memory device being a synchronous dynamic random access memory (SDRAM) device and the non-volatile memory device being an electrically programmable read only memory (EPROM)/an electrically erasable programmable read only memory (EEPROM)/a serial electrically erasable programmable read only memory (SEEPROM) (see paragraph 0058).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Forbes in combination with Miura et al.'s system to include volatile memory device being a synchronous dynamic random access memory (SDRAM) device

Art Unit: 2857

and the non-volatile memory device being an electrically programmable read only memory (EPROM)/an electrically erasable programmable read only memory (EEPROM)/a serial electrically erasable programmable read only memory (SEEPROM), as taught by Liebenow et al., in order to allow information to be stored and retrieved.

5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Forbes in view of Miura et al. as applied to claim 1 above, and further in view of U.S. Publication 2002/0101907 to Dent et al.

As noted above, Forbes in combination with Miura et al. teach all the features of the claimed invention, but do not disclose the non-volatile memory being connected to the radio transmitter via an I²C bus.

Dent et al. teach the non-volatile memory being connected to the radio transmitter via an I^2C bus (see paragraph 0046).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Forbes in combination with Miura et al.'s system to include the non-volatile memory being connected to the radio transmitter via an I²C bus, as taught by Dent et al., in order that information stored in the non-volatile memory can be transferred to the radio transmitter.

6. Claims 10, 11, 13-18, 21, 22, 24-29, and 31-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forbes in view of Miura et al. as applied to claims 1, 9, 19, 20, and 30 above, and further in view of Applicants' admitted Prior Art (referred thereafter as AAPA).

Art Unit: 2857

As noted above, with respect to claims 10, 11, 13-18, 21, 22, 24-29, and 31-34, Forbes disclose the processor (controller 130 shown on Fig. 1) that is mounted on the first circuit board.

Forbes in combination Miura et al. do not disclose determining the signal strength and the propagation delay of a radio signal received from a first transmitter, the signal strength and the propagation delay of a radio signal received from a second transmitter, and the location of the memory module based upon the determined signal strengths and propagation delays.

AAPA discloses determining the signal strength and the propagation delay of a radio signal received from a first transmitter, the signal strength and the propagation delay of a radio signal received from a second transmitter, and the location of the memory module based upon the determined signal strengths and propagation delays (see page 8, lines 7-18).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Forbes in view of Miura et al.'s system to include determining the signal strength and the propagation delay of a radio signal received from a first transmitter, the signal strength and the propagation delay of a radio signal received from a second transmitter, and the location of the memory module based upon the determined signal strengths and propagation delays, as taught by AAPA, in order to determine the identity of the module slot in which the memory module is located (see AAPA page 8, lines 17-18).

7. Claims 44-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Publication 2003/0036351 to Forbes in view of Applicants' admitted Prior Art (referred thereafter as AAPA).

Art Unit: 2857

With respect to claims 44-47, Forbes discloses a method of determining the location of a memory module (memory module 100 shown on Fig. 1) that is installed in a first circuit with respect to the first circuit board (see Fig. 1 and paragraph 0031).

Forbes does not disclose a) determining the signal strength of a first radio signal; b) determining the signal strength of a second radio signal; and c) based upon the determined signal strengths, determining the location of the memory module.

AAPA teaches a) determining the signal strength of a first radio signal; b) determining the signal strength of a second radio signal; and c) based upon the determined signal strengths, determining the location of the memory module (see page 8, lines 7-18).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Forbes in view of Miura et al.'s system to include a) determining the signal strength of a first radio signal; b) determining the signal strength of a second radio signal; and c) based upon the determined signal strengths, determining the location of the memory module, as taught by AAPA, in order to determine the identity of the module slot in which the memory module is located (see AAPA page 8, lines 17-18).

8. Claims 48-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forbes in view of Miura et al. as applied to claim 1 above, and further in view of U. S. Patent No. 4,870,704 to Matelan et al.

As noted above, Forbes in combination with Miura et al. teach all the features of the claimed invention, but do not disclose the radio transmitter being operable to transmit information that indicates that the memory module failed a test.

Art Unit: 2857

٠.

Matelan et al. teach the radio transmitter being operable to transmit information that indicates that the memory module failed a test (see col. 18, lines 16-25 and lines 43-47; col. 19, line 60 to col. 20, line 5; col. 21, lines 20-33; and col. 23, lines 64-68).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Forbes in view of Miura et al.'s system to include the radio transmitter being operable to transmit information that indicates that the memory module failed a test, as taught by Matelan et al., in order that failed component may be turned off and the system allowed to proceed in a degraded mode (see col. 21, lines 31-33).

Response to Arguments

9. Applicant's arguments with respect to claims 1-34, 40, 41, and 44-51 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Page 9

Application/Control Number: 09/981,960

Art Unit: 2857

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Contact Information

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Carol S. Tsai whose telephone number is (703) 305-0851. The

examiner can normally be reached on Monday-Friday from 7:30 AM to 4:00 PM. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can

be reached on (703) 308-1677. The fax number for TC 2800 is (703) 308-7382. Any inquiry of a

general nature or relating to the status of this application or proceeding should be directed to the

TC 2800 receptionist whose telephone number is (703) 308-1782.

In order to reduce pendency and avoid potential delays, Group 2800 is encouraging

FAXing of responses to Office actions directly into the Group at (703) 308-7382. This practice

may be used for filing papers not requiring a fee. It may also be used for filing papers which

require a fee by applicants who authorize charges to a PTO deposit account. Please identify the

examiner and art unit at the top of your cover sheet. Papers submitted via FAX into Group 2800

will be promptly forwarded to the examiner.

Carol S. Tsai

09/10/03

MARC S. HUFF VISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800